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Application No: 10/539,840
Amendment A
Reply to Office Action Dated 04/10/2007

Attorney Docket No: 3926.188

MAY 01 2007

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

1-17. (canceled)

18. (currently amended) A vehicle headlight, comprising: with multiple LEDs provided on a carrier and organized into ~~array~~ a group arrangement, and

at least one optical element functioning as a common collection lens, and a housing,

wherein ~~this overall array~~ the group arrangement has an asymmetric design arrived at by starting with an overall symmetric design and providing therein at least one area with non-functional or missing LEDs,

wherein the LEDs are LED-chips disposed in a region of a focal plane of the common collection lens, and

wherein the array group arrangement and optical element are assembled into a LED-module.

19. (cancelled)

20. (previously presented) The vehicle headlight according to Claim 18, wherein the vertical angle of beam spread ϕ of the headlight is less than 5° and the horizontal angle of beam spread ϕ of the vehicle headlight lies in the range of less than 20° .

Application No: 10/539,840
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Attorney Docket No: 3926.188

21. (previously presented) The vehicle headlight according to Claim 18, wherein an optically transparent material is cast into the LED-module.

22. (previously presented) The vehicle headlight according to Claim 18, wherein the LED-chips are hard wired together and this hard wiring or hard circuit is bonded to the carrier.

23. (previously presented) The vehicle headlight according to Claim 18, wherein LED-chips are arranged in the LED-module in a hexagonal, quadratic or square pattern.

24. (currently amended) The vehicle headlight according to Claim 18, wherein the asymmetric array group arrangement exhibits a design which corresponds to an asymmetric distribution of the vehicle headlight beam.

25. (previously presented) The vehicle headlight according to Claim 18, wherein the LED-chip of the LED-module emits exclusively IR radiation, or IR radiation with visible light, or exclusively visible light.

26. (previously presented) The vehicle headlight according to Claim 18, wherein a part of the LED-chip is provided with only IR emitting and another part with visible light emitting LEDs.

27. (currently amended) The vehicle headlight according to Claim 26, wherein these IR and visible LEDs are arranged alternating in the asymmetric ray group arrangement.

28. (currently amended) The vehicle headlight according to Claim 18, wherein a part of the LED-chip emits only IR radiation and another part only visible light, and the one part is separated from the other part in an asymmetric array group arrangement.

Application No: 10/539,840
Amendment A
Reply to Office Action Dated 04/10/2007

Attorney Docket No: 3926.188

29. (previously presented) The vehicle headlight according to Claim 18, comprising multiple LED-modules, which are arranged in one plane.
30. (previously presented) The vehicle headlight according to Claim 29, wherein the LED-modules contact each other.
31. (previously presented) The vehicle headlight according to Claim 30, wherein the LED-modules are releasably connected with each other.
32. (previously presented) The vehicle headlight according to Claim 29, wherein the LED-modules are provided upon a common carrier which is shaped or has circuitry which is vehicle-specific.
33. (currently amended) The vehicle headlight according to Claim 18, wherein multiple LED-modules are provided, which ~~corresponding~~ corresponds to the curvature of a curved vehicle surface.
34. (previously presented) The vehicle headlight according to Claim 33, wherein the LED-modules contact each other.
35. (previously presented) The vehicle headlight according to Claim 34, wherein the LED-modules are releasably connected with each other.
36. (previously presented) The vehicle headlight according to Claim 33, wherein the LED-modules are provided upon a common carrier which is shaped or has circuitry which is vehicle-specific.

Application No: 10/539,840
Amendment A
Reply to Office Action Dated 04/10/2007

Attorney Docket No: 3926.188

37. (previously presented) The vehicle headlight according to Claim 18, wherein multiple LED-modules are associated with a common supplemental optical element, which cooperates collectively with the lenses of each module.
38. (previously presented) The vehicle headlight according to Claim 18, wherein LED-chips are laser diodes or laser diodes with vertical resonators.